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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/703,727	11/02/2000	Osamu Tanitsu	107759	2157
25944	7590 07/15/2003			
OLIFF & BERRIDGE, PLC P.O. BOX 19928			EXAMINER	
	RIA, VA 22320	MACK, RICKY LEVERN		
			ART UNIT	PAPER NUMBER
			2873	·
			DATE MAILED: 07/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/703,727	TANITSU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ricky L Mack	2873				
· The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from	ely filed  will be considered timely.  he mailing date of this communication.				
1) Responsive to communication(s) filed on <u>05 M</u>	<u>lay 2003</u> .					
2a) This action is <b>FINAL</b> . 2b) This	s action is non-final.					
3)⊠ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.   Disposition of Claims						
4)⊠ Claim(s) <u>53-112</u> is/are pending in the application	on.					
4a) Of the above claim(s) 93-102 and 109-112 is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>53-92 and 103-108</u> is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7)⊠ Claim(s) <u>53</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Exa	miner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents		<del></del>				
3.☐ Copies of the certified copies of the priorit application from the International Bure * See the attached detailed Office action for a list of the control of the control of the certified copies of the priority application.	eau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)  The view Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)  Other: Detail Action .						
. Patent and Trademark Office						

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### **DETAILED ACTION**

#### Election/Restrictions

1. Newly submitted claims 93-102 and 109-112 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

Applicant's election filed 8/20/02 elected subject matter that is of the same scope of newly added claims 53-92 and 103-108. New claims 93-102 and 109-112 are of the same scope as non-elected claims of election filed 8/20/02.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 93-102 and 109-112 have been withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

### Claim Objections

2. Claim 53 is objected to because of the following informalities: In line 8, "D<sub>21</sub>" should be "D<sub>2</sub>". Appropriate correction is required.

### Allowable Subject Matter

3. This application is in condition for allowance except for the presence of claims 93-102 and 109-112 drawn to an invention that has been constructively elected by original presentation for prosecution on the merits with traverse in Paper No. 12. Applicant is given ONE MONTH or THIRTY DAYS from the date of this letter, whichever is longer, to cancel the noted claims or

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take other appropriate action (37 CFR 1.144). Failure to take action during this period will be treated as authorization to cancel the noted claims by Examiner's Amendment and pass the case to issue. Extensions of time under 37 CFR 1.136(a) will not be permitted since this application will be passed to issue.

The prosecution of this case is closed except for consideration of the above matter.

- 4. Claims 53-92 and 103-108 are allowable.
- 5. The following is an examiner's statement of reasons for allowability: The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in claim(s) 53-92 and 103-108, wherein a wavefront dividing type optical integrator comprises plural micro optical element which for dividing a waveform into a plurality of light sources, the micro optical elements has an entrance surface having one of a rectangular, circular or hexagonal shape and an exit surface having one of hexagonal and circular shape, and wherein one of the following conditions is satisfied as defined in the claims:

$$(d_1/2) (D_1/2)/(\lambda \cdot f) \ge 3.05$$

$$(d_2/2) (D_2/2)/(\lambda \cdot f) \ge 3.05$$

$$(d_1/2) (D/2)/(\lambda \cdot f) \ge 3.05$$

$$(d_2/2) (D/2)/(\lambda \cdot f) \ge 3.05$$
.

## Conclusion

6. This application is in condition for allowance except for the following formal matters:

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3.

Refer to items 2 and 3.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **ONE MONTH** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky L Mack whose telephone number is (703) 305-6984. The examiner can normally be reached on Monday-Friday (6:30 AM to 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (703) 308-4883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

RM July 13, 2003 RICKY MACK PRIMARY EXAMINER